

0590
0111

#2 OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,234

DATE: 01/16/2002
TIME: 18:33:08

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:
 5 (i) APPLICANT: Ashkenazi, Avi J.
 7 (ii) TITLE OF INVENTION: Apo-2 LI AND Apo-3 POLYPEPTIDES
 9 (iii) NUMBER OF SEQUENCES: 11
 11 (iv) CORRESPONDENCE ADDRESS:
 12 (A) ADDRESSEE: Genentech, Inc.
 13 (B) STREET: 460 Point San Bruno Blvd
 14 (C) CITY: South San Francisco
 15 (D) STATE: California
 16 (E) COUNTRY: USA
 17 (F) ZIP: 94080
 19 (v) COMPUTER READABLE FORM:
 20 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 21 (B) COMPUTER: IBM PC compatible
 22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 23 (D) SOFTWARE: WinPatin (Genentech)
 25 (vi) CURRENT APPLICATION DATA:
 C--> 26 (A) APPLICATION NUMBER: US/09/993,234
 C--> 27 (B) FILING DATE: 19-Nov-2001
 28 (C) CLASSIFICATION:
 30 (vii) PRIOR APPLICATION DATA:
 31 (A) APPLICATION NUMBER: 08/828,683
 32 (B) FILING DATE:
 36 (viii) ATTORNEY/AGENT INFORMATION:
 37 (A) NAME: Marschang, Diane L.
 38 (B) REGISTRATION NUMBER: 35,600
 39 (C) REFERENCE/DOCKET NUMBER: P1007P1
 41 (ix) TELECOMMUNICATION INFORMATION:
 42 (A) TELEPHONE: 415/225-5416
 43 (B) TELEFAX: 415/952-9881
 44 (C) TELEX: 910/371-7168
 46 (2) INFORMATION FOR SEQ ID NO: 1:
 48 (i) SEQUENCE CHARACTERISTICS:
 49 (A) LENGTH: 181 amino acids
 50 (B) TYPE: Amino Acid
 51 (D) TOPOLOGY: Linear
 53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 55 Met Glu Gln Arg Pro Arg Gly Cys Ala Ala Val Ala Ala Ala Leu
 56 1 5 10 15
 58 Leu Leu Val Leu Leu Gly Ala Arg Ala Gln Gly Gly Thr Arg Ser
 59 20 25 30
 61 Pro Arg Cys Asp Cys Ala Gly Asp Phe His Lys Lys Ile Gly Leu
 62 35 40 45
 64 Phe Cys Cys Arg Gly Cys Pro Ala Gly His Tyr Leu Lys Ala Pro
 65 50 55 60
 67 Cys Thr Glu Pro Cys Gly Asn Ser Thr Cys Leu Val Cys Pro Gln

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,234

DATE: 01/16/2002
TIME: 18:33:08

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

68	65	70	75
70	Asp Thr Phe Leu Ala Trp Glu Asn His His	Asn Ser Glu Cys Ala	
71	80	85	90
73	Arg Cys Gln Ala Cys Asp Glu Gln Ala	Ser Gln Val Ala Leu Glu	
74	95	100	105
76	Asn Cys Ser Ala Val Ala Asp Thr Arg	Cys Gly Cys Lys Pro Gly	
77	110	115	120
79	Trp Phe Val Glu Cys Gln Val Ser Gln	Cys Val Ser Ser Ser Pro	
80	125	130	135
82	Phe Tyr Cys Gln Pro Cys Leu Asp Cys	Gly Ala Leu His Arg His	
83	140	145	150
85	Thr Arg Leu Leu Cys Ser Arg Arg Asp	Thr Asp Cys Gly Thr Cys	
86	155	160	165
88	Leu Pro Gly Phe Tyr Glu His Gly Asp	Gly Cys Val Ser Cys Pro	
89	170	175	180

91 Thr
92 181

94 (2) INFORMATION FOR SEQ ID NO: 2:

96 (i) SEQUENCE CHARACTERISTICS:

97 (A) LENGTH: 433 base pairs
98 (B) TYPE: Nucleic Acid
99 (C) STRANDEDNESS: Single
100 (D) TOPOLOGY: Linear

102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

105	CTGCTGGGG CCCGGGCCAG NGGCGGCAGT CGTAGCCCCA GGTGTGACTG	50
107	TGCCGGTGAC TTCCACAAGA AGATTGGTCT GTTTTGTGTC AGAGGCTGCC	100
109	CAGCGGGGCA ACTACCTGAA GGCCCCTTGC ACGGAGCCCT GCGCAACTCC	150
111	ACCTGCCTTG TGTGTCCCCA AGACACCTTC TTGGCCTGGG AGAACCCACCA	200
113	TAATTCTGAA TGTGCCCGCT GCCAGGCCTG TGATGAGCAG GCCTCCCAGG	250
115	TGGCGCTGGA GAACTGTTCA GCAGTGGCCG ACACCCGCTG TGGCTGTAAG	300
117	CAGGGCTGGT TTGTGGAGTG CCAGGGTCAG CCAATGTGTC AGCAGTTCA	350
119	CCCTTCTAAT GCCAACCATG CCTAGACTGC GGGGCCCTGC AACGCAACAC	400
121	ACGGCTAATN TGTTTCCCGC AGAGATNATT GTT	433

123 (2) INFORMATION FOR SEQ ID NO: 3:

125 (i) SEQUENCE CHARACTERISTICS:
126 (A) LENGTH: 28 base pairs
127 (B) TYPE: Nucleic Acid
128 (C) STRANDEDNESS: Single
129 (D) TOPOLOGY: Linear

131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

134 CCCGCTGCCA GGCCTGTGAT GAGCAGGGC 28

136 (2) INFORMATION FOR SEQ ID NO: 4:

138 (i) SEQUENCE CHARACTERISTICS:
139 (A) LENGTH: 28 base pairs
140 (B) TYPE: Nucleic Acid
141 (C) STRANDEDNESS: Single
142 (D) TOPOLOGY: Linear

144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

147 CAGGGCCCCG CAGTCTAGGC ATGGTTGG 28

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,234

DATE: 01/16/2002
TIME: 18:33:08

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

149 (2) INFORMATION FOR SEQ ID NO: 5:

151 (i) SEQUENCE CHARACTERISTICS:

152 (A) LENGTH: 1438 base pairs

153 (B) TYPE: Nucleic Acid

154 (C) STRANDEDNESS: Single

155 (D) TOPOLOGY: Linear

157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

160 GAATTCCGGC GCGGAGGCCG AGAGAGAAAGT CACTTGCCCT GGCTCTACCT 50
162 TGAAGTGGTT CTCAGGGTTG GGGCGAGAGT CGGGGTGGGG ACCGAGATGC 100
164 AGCTCTATCC TGTGCCCTG GTCGCAGCAG GCAGCCCAGC GCTTCGCGTG 150
166 TTCTACTTGG CCTGTCCGCT GCCGCCTAAT GAGCTCAGGT CTAGGCCGAG 200
168 CAGAGGGGGC ACCTGGTCGG ACTCGGTTGG GCTCGGGCGG CCCCCGCCTCC 250
170 CCCCGCCCCG CAGGCGGGCC CTTCTCGACG GCGCGGGGCG GGCCCTGCGG 300
172 GCGCGGGGCT GAAGGCGGAA CCACGACGGG CAGAGAGCAC GGAGCCGGGA 350
174 AGCCCCCTGGG CGCCCCGTCGG AGGGCTATGG AGCAGCAGGCC GCGGGGCTGC 400
176 GCGGCGGTGG CGGCGGGCGCT CCTCCTGGTG CTGCTGGGG CCCGGGCCA 450
178 GGGCGGCACT CGTAGCCCCA GGTGTGACTG TGCCGGTGAC TTCCACAAGA 500
180 AGATTGGTCT GTTTTGTGAGAGGCTGAGCAGCAGGGCA CTACCTGAAG 550
182 GCCCCTTGCA CGGAGCCCTG CGGCAACTCC ACCTGCCTTG TGTGTCCCCA 600
184 AGACACCTTC TTGGCCTGGG AGAACCAACCA TAATTCTGAA TGTGCCCGCT 650
186 GCCAGGCCCTG TGATGAGCAG GCCTCCCAGG TGGCGCTGGA GAACTGTTCA 700
188 GCAGTGGCCG ACACCCGCTG TGGCTGTAAG CCAGGCTGGT TTGTGGAGTG 750
190 CCAGGTCAGC CAATGTGTCA GCAGTTCACC CTTCTACTGC CAACCATGCC 800
192 TAGACTGCGG GGCCCTGCAC CGCCACACAC GGCTACTCTG TTCCCGCAGA 850
194 GATACTGACT GTGGGACCTG CCTGCCTGGC TTCTATGAAC ATGGCGATGG 900
196 CTGCGTGTCC TGCCCCACGT AATTCTAGC TGTCGTGGGA TGGAGGGAAG 950
198 GGCAGGCTGGG AGCAGAGCAG GGGCCTGGGG TGGGGCAGGT GCTGCTGGTT 1000
200 CAGGAATAGG AAGAGGGGAT AGGGAGGGAGG GAGCCTTGGC CCTGTGATGG 1050
202 GTGGGCCCCA CTTCAGGCAA ACTTAGATGG CAAAAGAGCA ATCTGGATCC 1100
204 GCCTTAGCCA GATACATAAG GGTATTGCC TTCACTTCA GCCAGCATTG 1150
206 CCCCCAGCGA TCCTAGCCAG ATATTACAGA TGATTGTCA CTTACACAGA 1200
208 GAGTCACATT GATATAGCTT TAAAACCTGG GCTGAAGGAG GTTGAGGCTG 1250
210 CAGTGAGCTA TGATCGTGCC ACTGCACTTC AGCCTGGCA ACAGAGCGAG 1300
212 ACCTATTAAA TAAATAAATA AATATTAAAT CTATTAAATA TTAAATATTA 1350
214 AATCTATTAA ATAAATAAAT ACAAAAGGGCT GAGAGTCAGG ACTGTGCTGC 1400
216 TAGTTCTCTA GGGGATCTTG GGCAAGTGCA GAGAATTG 1438

218 (2) INFORMATION FOR SEQ ID NO: 6:

220 (i) SEQUENCE CHARACTERISTICS:

221 (A) LENGTH: 417 amino acids

222 (B) TYPE: Amino Acid

223 (D) TOPOLOGY: Linear

225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

227 Met Glu Gln Arg Pro Arg Gly Cys Ala Ala Val Ala Ala Leu
228 1 5 10 15
230 Leu Leu Val Leu Leu Gly Ala Arg Ala Gln Gly Gly Thr Arg Ser
231 20 25 30
233 Pro Arg Cys Asp Cys Ala Gly Asp Phe His Lys Lys Ile Gly Leu
234 35 40 45
236 Phe Cys Cys Arg Gly Cys Pro Ala Gly His Tyr Leu Lys Ala Pro

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,234

DATE: 01/16/2002
TIME: 18:33:08

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

237		50	55	60
239	Cys Thr Glu Pro Cys Gly Asn Ser Thr Cys Leu Val Cys Pro Gln			
240		65	70	75
242	Asp Thr Phe Leu Ala Trp Glu Asn His His Asn Ser Glu Cys Ala			
243		80	85	90
245	Arg Cys Gln Ala Cys Asp Glu Gln Ala Ser Gln Val Ala Leu Glu			
246		95	100	105
248	Asn Cys Ser Ala Val Ala Asp Thr Arg Cys Gly Cys Lys Pro Gly			
249		110	115	120
251	Trp Phe Val Glu Cys Gln Val Ser Gln Cys Val Ser Ser Ser Pro			
252		125	130	135
254	Phe Tyr Cys Gln Pro Cys Leu Asp Cys Gly Ala Leu His Arg His			
255		140	145	150
257	Thr Arg Leu Leu Cys Ser Arg Arg Asp Thr Asp Cys Gly Thr Cys			
258		155	160	165
260	Leu Pro Gly Phe Tyr Glu His Gly Asp Gly Cys Val Ser Cys Pro			
261		170	175	180
263	Thr Ser Thr Leu Gly Ser Cys Pro Glu Arg Cys Ala Ala Val Cys			
264		185	190	195
266	Gly Trp Arg Gln Met Phe Trp Val Gln Val Leu Leu Ala Gly Leu			
267		200	205	210
269	Val Val Pro Leu Leu Leu Gly Ala Thr Leu Thr Tyr Thr Tyr Arg			
270		215	220	225
272	His Cys Trp Pro His Lys Pro Leu Val Thr Ala Asp Glu Ala Gly			
273		230	235	240
275	Met Glu Ala Leu Thr Pro Pro Pro Ala Thr His Leu Ser Pro Leu			
276		245	250	255
278	Asp Ser Ala His Thr Leu Leu Ala Pro Pro Asp Ser Ser Glu Lys			
279		260	265	270
281	Ile Cys Thr Val Gln Leu Val Gly Asn Ser Trp Thr Pro Gly Tyr			
282		275	280	285
284	Pro Glu Thr Gln Glu Ala Leu Cys Pro Gln Val Thr Trp Ser Trp			
285		290	295	300
287	Asp Gln Leu Pro Ser Arg Ala Leu Gly Pro Ala Ala Ala Pro Thr			
288		305	310	315
290	Leu Ser Pro Glu Ser Pro Ala Gly Ser Pro Ala Met Met Leu Gln			
291		320	325	330
293	Pro Gly Pro Gln Leu Tyr Asp Val Met Asp Ala Val Pro Ala Arg			
294		335	340	345
296	Arg Trp Lys Glu Phe Val Arg Thr Leu Gly Leu Arg Glu Ala Glu			
297		350	355	360
299	Ile Glu Ala Val Glu Val Glu Ile Gly Arg Phe Arg Asp Gln Gln			
300		365	370	375
302	Tyr Glu Met Leu Lys Arg Trp Arg Gln Gln Gln Pro Ala Gly Leu			
303		380	385	390
305	Gly Ala Val Tyr Ala Ala Leu Glu Arg Met Gly Leu Asp Gly Cys			
306		395	400	405
308	Val Glu Asp Leu Arg Ser Arg Leu Gln Arg Gly Pro			
309		410	415	417

RAW SEQUENCE LISTING

DATE: 01/16/2002
TIME: 18:33:08

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

311 (2) INFORMATION FOR SEQ ID NO: 7:
313 (i) SEQUENCE CHARACTERISTICS:
314 (A) LENGTH: 27 base pairs
315 (B) TYPE: Nucleic Acid
316 (C) STRANDEDNESS: Single
317 (D) TOPOLOGY: Linear
319 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
322 GGCGCTCTGG TGGCCCTTGC AGAAGCC 27
324 (2) INFORMATION FOR SEQ ID NO: 8:
326 (i) SEQUENCE CHARACTERISTICS:
327 (A) LENGTH: 25 base pairs
328 (B) TYPE: Nucleic Acid
329 (C) STRANDEDNESS: Single
330 (D) TOPOLOGY: Linear
332 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
335 TTCGGCCGAG AAGTTGAGAA ATGTC 25
337 (2) INFORMATION FOR SEQ ID NO: 9:
339 (i) SEQUENCE CHARACTERISTICS:
340 (A) LENGTH: 1634 base pairs
341 (B) TYPE: Nucleic Acid
342 (C) STRANDEDNESS: Single
343 (D) TOPOLOGY: Linear
345 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
348 CGGGCCCTGC GGGCGCGGGG CTGAAGGCGG AACCACGACG GGCAGAGAGC 50
350 ACGGAGCCGG GAAGCCCCTG GGCGCCCGTC GGAGGGCT ATG GAG 94
351 Met Glu
352 1
354 CAG CGG CCG CGG GGC TGC GCG GCG GTG GCG GCG GCG CTC 133
355 Gln Arg Pro Arg Gly Cys Ala Ala Val Ala Ala Ala Leu
356 5 10 15
358 CTC CTG GTG CTG CTG GGG GCC CGG GCC CAG GGC GGC ACT 172
359 Leu Leu Val Leu Leu Gly Ala Arg Ala Gln Gly Gly Thr
360 20 25
362 CGT AGC CCC AGG TGT GAC TGT GCC GGT GAC TTC CAC AAG 211
363 Arg Ser Pro Arg Cys Asp Cys Ala Gly Asp Phe His Lys
364 30 35 40
366 AAG ATT GGT CTG TTT TGT TGC AGA GGC TGC CCA GCG GGG 250
367 Lys Ile Gly Leu Phe Cys Cys Arg Gly Cys Pro Ala Gly
368 45 50
370 CAC TAC CTG AAG GCC CCT TGC ACG GAG CCC TGC GGC AAC 289
371 His Tyr Leu Lys Ala Pro Cys Thr Glu Pro Cys Gly Asn
372 55 60 65
374 TCC ACC TGC CTT GTG TGT CCC CAA GAC ACC TTC TTG GCC 328
375 Ser Thr Cys Leu Val Cys Pro Gln Asp Thr Phe Leu Ala
376 70 75 80
378 TGG GAG AAC CAC CAT AAT TCT GAA TGT GCC CGC TGC CAG 367
379 Trp Glu Asn His His Asn Ser Glu Cys Ala Arg Cys Gln
380 85 90
382 GCC TGT GAT GAG CAG GCC TCC CAG GTG GCG CTG GAG AAC 406

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/993,234

DATE: 01/16/2002

TIME: 18:33:09

Input Set : N:\Crf3\RULE60\09993234.raw
Output Set: N:\CRF3\01162002\I993234.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:480 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:9